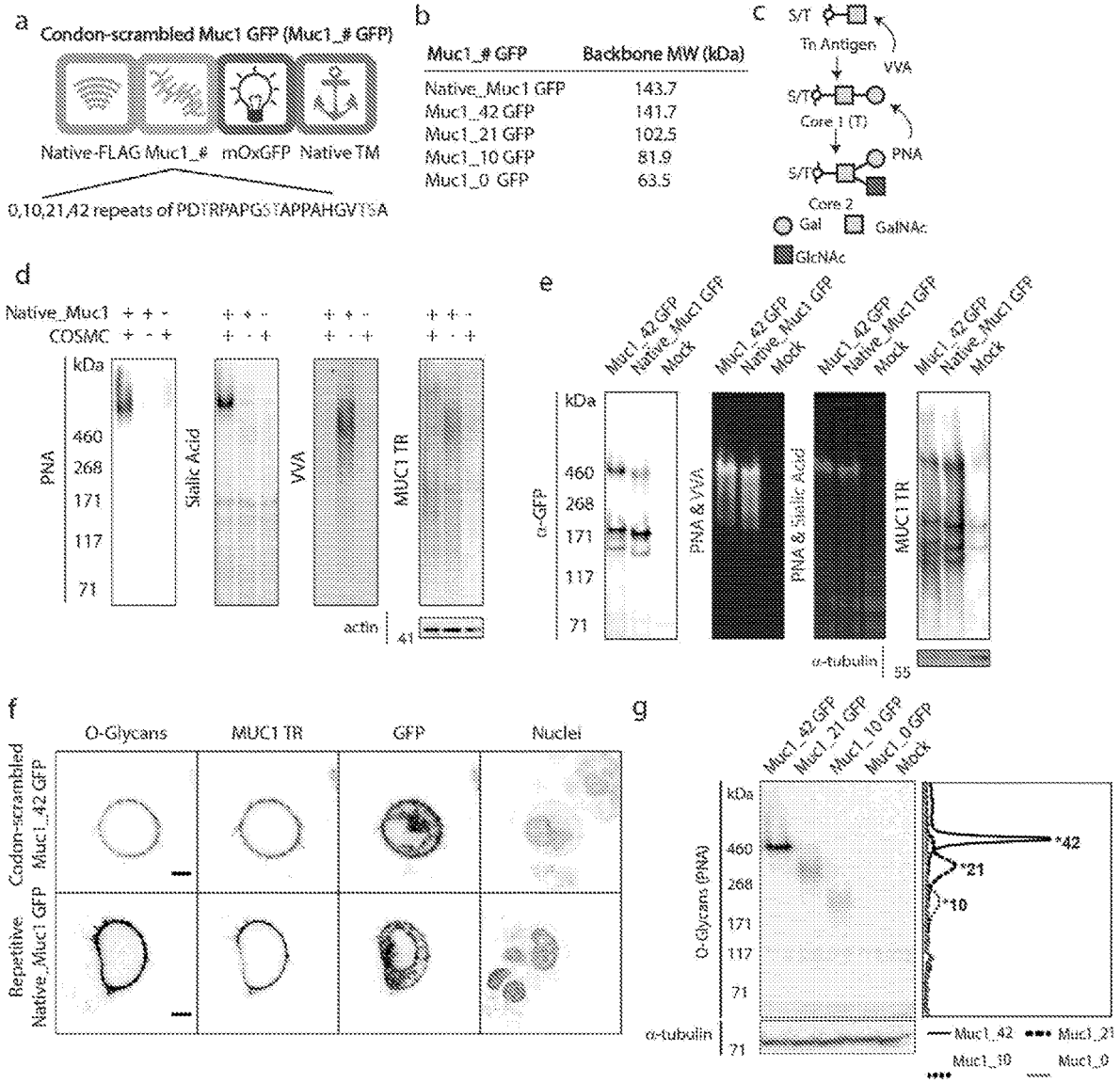
a
Condon-scrambled Muc1 GFP (Muc1_# GFP)
Native-FLAG Muc1_# mOxGFP Native TM
0,10,21,42 repeats of PDTRPAPGSTAPPAHGVTSA
b
Muc1_# GFP
Backbone MW (kDa)
Native_Muc1 GFP 143.7
Muc1_42 GFP 141.7
Muc1_21 GFP 102.5
Muc1_10 GFP 81.9
Muc1_0 GFP 63.5
c
S/T
Tn Antigen
VVA
Core 1 (T)
PNA
Core 2
Gal
GalNAc
GlcNAc
d
Native_Muc1
COSMC
kDa
460
268
171
117
71
PNA
Sialic Acid
VVA
MUC1 TR
actin
41
e
Muc1_42 GFP
Native_Muc1 GFP
Mock
α-GFP
PNA & VVA
PNA & Sialic Acid
MUC1 TR
α-tubulin
55
f
O-Glycans
MUC1 TR
GFP
Nuclei
Codon-scrambled Muc1_42 GFP
Repetitive Native_Muc1 GFP
g
Muc1_42 GFP
Muc1_21 GFP
Muc1_10 GFP
Muc1_0 GFP
Mock
O-Glycans (PNA)
α-tubulin
*42
*21
*10
Muc1_42
Muc1_21
Muc1_10
Muc1_0

Figure 2